

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of the Claims:**

Claim 1. (Currently Amended) A sealing arrangement consisting essentially of a sealing ring ~~and for sealing~~ two components moving relative to each other, said components having a first gap therebetween, including a radially internal or external sealing surface that can be brought into contact with at least one of said components to form a seal against a fluid medium, where, to one side of the sealing surface, the sealing ring displays a pressurizing surface to be pressurized by the fluid medium and, on the opposite side, a supporting surface for positioning against a ~~groove~~ supporting flank of the component accommodating the sealing ring,

wherein one of the two components displays a groove without an undercut to receive the sealing ring, where the groove displays a supporting flank opposite the supporting surface of the sealing ring, and a pressure-side flank opposite the pressurizing surface of the sealing ring, where the sealing surface of the sealing ring projects from the receiving component in the radial direction, and wherein said sealing ring has a central longitudinal axis;

~~wherein the pressure-side flank and the supporting flank of the groove are inclined relative to the surface of the sealing ring, each enclosing an angle of less than 90° towards said surface;~~

wherein a second gap is provided, at least between the pressurizing surface of the sealing ring and the pressure-side flank, into which the fluid medium to be provided on the pressure side of the sealing ring can flow, pressing the sealing ring in sealing fashion against the supporting

flank of the groove and against one of said two components, and, by application of pressure by the fluid medium, the supporting surface of the sealing ring can be brought into flat and full area contact with the supporting flank of the groove, ~~at least on the side facing the sealing surface~~

wherein the supporting surface of the sealing ring as well as the supporting flank of the groove have an inclination angle of 30° to 60°.

wherein the supporting surface is completely designed as a lateral surface of a truncated cone, resulting in flat contact with the supporting flank of the groove.

wherein the second gap extends over the entire lateral extension of the sealing ring.

wherein the sealing ring is divided almost completely or throughout in the radial direction at one point on its circumference, forming a weaker area,

wherein the entire sealing surface is in sealing contact with one of said two components to form a seal when the sealing ring is pressurized, the sealing arrangement characterized in that the pressurizing surface or the supporting surface, or the pressurizing surface and the supporting surface, each form a lateral surface and the lateral surfaces each extend at least up to the area of the sealing ring projecting from the groove and into said first gap between said components.

Claim 2. (Cancelled)

Claim 3. (Cancelled)

Claim 4. (Currently Amended)      The sealing arrangement according to Claim 1 2, characterized in that the area of the pressurizing surface or the supporting surface, or of the

pressurizing surface and the supporting surface, with the form of a truncated cone follows on laterally, at least almost directly, from the sealing surface.

Claim 5. (Previously Presented) The sealing arrangement according to Claim 1, characterized in that a surface is located between the pressurizing surface and the supporting surface, opposite to the sealing surface, which is a lateral surface of a truncated cone, or a surface of a cylinder, or a concavely arched surface forming a transitional area.

Claim 6. (Previously Presented) The sealing arrangement according to Claim 1, characterized in that the radial thickness of the sealing ring is less than/equal to the extension of the sealing surface in the axial direction of the sealing ring.

Claim 7. (Previously Presented) The sealing arrangement according to Claim 1, characterized in that the pressurizing surface or the supporting surface, or the pressurizing surface and the supporting surface, is or are profiled.

Claim 8. (Cancelled)

Claim 9. (Previously Presented) The sealing arrangement according to Claim 1, characterized in that the weaker area is designed as a complete division of the sealing ring, forming two opposite sealing ring ends, in that at least one, integrally molded area extending in the circumferential direction of the sealing ring is provided on each of the sealing ring ends, and

in that the areas associated with different sealing ring ends are located one behind the other in the axial direction of the sealing ring, forming a labyrinth seal, and are in contact with each other, at least in operating condition of the sealing ring.

Claim 10. (Previously Presented) The sealing arrangement according to Claim 1, characterized in that the sealing ring consists of a plastic with an elongation at break at room temperature of  $\leq 50\%$ .

Claim 11. (Currently Amended) The sealing arrangement according to Claim 1, characterized in that the sealing surface is partly or entirely arranged concentrically to the central longitudinal axis of the sealing ring, and is designed as the surface of a cylinder that can be a radially external or internal boundary surface of the ring.

Claims 12-13. (Cancelled)

Claim 14. (Previously Presented) The sealing arrangement according to Claim 1, characterized in that the second gap extends at least partially over the side of the sealing ring opposite the sealing surface of the sealing ring, which forms a transitional area between the supporting surface and the pressurizing surface.

Claim 15. (Previously Presented) The sealing arrangement according to Claim 1, characterized in that the sealing ring projects from the groove in the component in the radial direction by less than one-third of its radial thickness.

Claim 16. (Previously Presented) The sealing arrangement according to Claim 1, characterized in that the supporting flank of the groove can be brought into full contact with the supporting surface of the sealing ring by pressurizing the fluid medium.

Claim 17. (Previously Presented) The sealing arrangement according to Claim 1, characterized in that the second gap displays an essentially constant gap width over its radial extension.

Claim 18. (Previously Presented) The sealing arrangement according to Claim 1, characterized in that the groove is of rounded design in the area of the groove base, or in at least one transitional area to an adjacent groove flank.

Claim 19. (Currently Amended) The sealing arrangement according to Claim 1, characterized in that a first of said two components ~~component~~ is provided, which displays the sealing ring accommodated in a circumferential groove, and in that a second ~~component of said two components~~ is provided, which is capable of motion relative to the first ~~component of said two components~~ and with which the sealing surface of the sealing ring can be brought into

contact in sealing fashion during motion of the components relative to each other, and in that the sealing ring is located in the groove without pretension in relation to the component to be sealed.

Claim 20. (Previously Presented) The sealing arrangement according to Claim 1, characterized in that the component accommodating the sealing ring in the groove is a shaft, and in that a shaft guide is provided, with which the sealing surface of the sealing ring can be brought into contact in sealing fashion by application of the pressure of the fluid medium during rotary motion of the shaft and the shaft guide relative to each other, in that the shaft guide is made of a light metal, and in that the supporting surface of the sealing ring is inclined to the longitudinal axis of the sealing ring such that, owing to the pressure force of the fluid medium on the sealing ring, the sealing ring is located in non-rotating fashion relative to the shaft guide.

Claim 21. (Previously Presented) The sealing arrangement according to Claim 1, characterized in that the component accommodating the sealing ring is a shaft guide, and in that a shaft capable of rotation relative to it is provided, with which the sealing surface of the sealing ring can be brought into contact in sealing fashion.

Claim 22. (Previously Presented) The sealing arrangement according to Claim 1, characterized in that said two components comprise a shaft and a shaft guide.

Claim 23. (Previously Presented) The sealing arrangement according to Claim 1, characterized in that said two components comprise a cylinder and a piston.

Claim 24. (Cancelled).

Claim 25. (Currently Amended) A sealing arrangement ~~with~~ comprising a sealing ring ~~and for sealing~~ two components moving relative to each other, said components having a first gap therebetween, including a radially internal or external sealing surface that can be brought into contact with one of the components to form a seal against a fluid medium, where, to the side of the sealing surface, the sealing ring displays a pressurizing surface to be pressurized by the fluid medium and, on the opposite side, a supporting surface to the side of the sealing surface for positioning against a groove flank of one of the other of the components accommodating the sealing ring, and a transitional area connecting the pressurizing surface and the supporting surface opposite to the sealing surface, wherein the pressurizing surface and the supporting surface are inclined relative to the sealing surface and enclosed an angle of about 30° to 60° towards it,

wherein the supporting surface is completely designed as a lateral surface of a truncated cone, resulting in flat contact with the supporting flank of the groove,

wherein the second gap extends over the entire lateral extension of the sealing ring,

wherein the sealing ring is divided almost completely or throughout in the radial direction at one point on its circumference, forming a weaker area, to be capable of radial compression towards a radially internal sealing surface, or of expansion toward a radially external sealing surface,

wherein one of the two components displays a groove without undercut to accommodate the sealing ring, where the groove displays a supporting flank opposite the supporting surface of

the sealing ring, and a pressure-side flank opposite the pressurizing surface of the sealing ring, where the sealing surface of the sealing ring projects from the receiving component in the radial direction,

~~wherein the pressure-side flank and the supporting flank of the groove are inclined relative to the sealing surface of the sealing ring, each enclosing an angle of about 30° to 60° towards it;~~

wherein a second gap is provided, at least between the pressurizing surface of the sealing ring and the pressure-side flank, into which the fluid medium to be provided on the pressure side of the sealing ring can flow, pressing the sealing ring in sealing fashion against the supporting flank of the groove and against a component to be sealed that corresponds to a first component, and, by application of pressure by the fluid medium, the supporting surface of the sealing ring can be brought into flat and full area contact with the supporting flank of the groove, at least on the side facing the sealing surface, and

~~wherein the transitional area of the sealing ring is arranged at the base of the groove and~~ the sealing arrangement is further characterized in that the pressurizing surface or the supporting surface, or the pressurizing surface and the supporting surface, each form a lateral surface and the lateral surfaces each extend at least up to the area of the sealing ring projecting from the groove and into said first gap between said components.

Claim 26.( Currently Amended)     A sealing arrangement ~~with~~ comprising a sealing ring and ~~for sealing~~ two components moving relative to each other, said components having a first gap therebetween, including a radially internal or external sealing surface that can be



brought into contact with one of the components to form a seal against a fluid medium, where, to the side of the sealing surface, the sealing ring displays a pressurizing surface to be pressurized by the fluid medium and, on the opposite side, a supporting surface to the side of the sealing surface for positioning against a groove flank of a component accommodating the sealing ring, and a transitional area connecting the pressurized surface and the supporting surface opposite to the sealing surface,

wherein the pressurizing surface and the supporting surface are inclined relative to the sealing surface and enclose an angle of less than  $90^\circ$  towards it,

wherein the sealing ring is divided almost completely or throughout in the radial direction at one point on its circumference, forming a weaker area to be capable of radial compression towards a radially external sealing surface,

wherein one of the two components displays a groove without undercut to accommodate the sealing ring, where the groove displays a supporting flank opposite the supporting surface of the sealing ring, and a pressure-side flank opposite the pressurizing surface of the sealing ring, where the sealing surface of the sealing ring projects from the receiving component in the radial direction,

~~wherein the pressure-side flank and the supporting flank of the groove are inclined relative to the sealing surface of the sealing ring, each enclosing an angle of less than  $90^\circ$  towards it,~~

wherein a second gap is provided at least between the pressurizing surface of the sealing ring and the pressure-side flank, into which the fluid medium to be provided on the pressure side of the sealing ring can flow, pressing the sealing ring in sealing fashion against the supporting

flank of the groove and against one of the components to be sealed that corresponds to the first component, and, by application of pressure by the fluid medium, the supporting surface of the sealing ring can be brought into flat and full area contact with the supporting flank of the groove, at least on the side facing the sealing surface,

wherein the groove is of concave rounded design in the central area of the groove base and in both transitional areas to both adjacent groove flanks, with a continuous transition of the concave groove base to the groove flanks, and

wherein the transitional area of the sealing ring is arranged at the base of the groove and the sealing arrangement is further characterized in that the pressurizing surface or the supporting surface, or the pressurizing surface and the supporting surface, each form a lateral surface and the lateral surfaces each extend at least up to the area of the sealing ring projecting from the groove and into said first gap between said components

wherein the supporting surface of the sealing ring as well as the supporting flank of the groove have an inclination angle of 30° to 60°,

wherein the supporting surface is completely designed as a lateral surface of a truncated cone, resulting in flat contact with the supporting flank of the groove, and

wherein the second gap extends over the entire lateral extension of the sealing ring.

Claim 27. (New) A sealing arrangement comprising a sealing ring and two components moving relative to each other, said components having a first gap therebetween, including a radially internal or external sealing surface that can be brought into contact with one of the components to form a seal against a fluid medium, where, to the side of the sealing

surface, the sealing ring displays a pressurizing surface to be pressurized by the fluid medium and, on the opposite side, a supporting surface to the side of the sealing surface for positioning against a groove flank of one the other of the components accommodating the sealing ring, and a transitional area connecting the pressurizing surface and the supporting surface opposite to the sealing surface, wherein the pressurizing surface and the supporting surface are inclined relative to the sealing surface and enclosed an angle of about  $30^{\circ}$  to  $60^{\circ}$  towards it,

wherein the supporting surface is completely designed as a lateral surface of a truncated cone, resulting in flat contact with the supporting flank of the groove,

wherein the second gap extends over the entire lateral extension of the sealing ring,

wherein the sealing ring is divided almost completely or throughout in the radial direction at one point on its circumference, forming a weaker area, to be capable of radial compression towards a radially internal sealing surface, or of expansion toward a radially external sealing surface,

wherein one of the two components displays a groove without undercut to accommodate the sealing ring, where the groove displays a supporting flank opposite the supporting surface of the sealing ring, and a pressure-side flank opposite the pressurizing surface of the sealing ring, where the sealing surface of the sealing ring projects from the receiving component in the radial direction,

wherein a second gap is provided, at least between the pressurizing surface of the sealing ring and the pressure-side flank, into which the fluid medium to be provided on the pressure side of the sealing ring can flow, pressing the sealing ring in sealing fashion against the supporting flank of the groove and against a component to be sealed that corresponds to a first component,

and, by application of pressure by the fluid medium, the supporting surface of the sealing ring can be brought into flat and full area contact with the supporting flank of the groove, at least on the side facing the sealing surface, and

the sealing arrangement is further characterized in that the pressurizing surface or the supporting surface, or the pressurizing surface and the supporting surface, each form a lateral surface and the lateral surfaces each extend at least up to the area of the sealing ring projecting from the groove and into said first gap between said components;

wherein the sealing surface of the sealing ring is the surface with the greatest width referring to the cross-sectional view of the sealing ring;

wherein the sealing surface of the sealing ring is in flat and full area contact with the supporting flank of the groove over the entire height and the entire circumference of the sealing ring; and

wherein the sealing surface of the sealing ring in the pressurized sealing position of the sealing ring is in full area contact with the opposite component.